

*Re.  
8/1  
2. Amended  
5/14/62*

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

RAOUL FLORENT ET AL

FR 010011

Serial No.

Group Art Unit

Filed: CONCURRENTLY

Ex.

Title: SOFTWARE SYSTEM FOR DEPLOYING IMAGE PROCESSING FUNCTIONS  
ON A PROGRAMMABLE PLATFORM OF DISTRIBUTED PROCESSOR  
ENVIRONMENTS

Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please  
amend the above-identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

AI  
9. (amended) The Software system of claim 6, wherein the time  
reference structure labeled Time-Ref locates the Image Strips with  
respect to the current image index in the sequence and with respect  
to the Image Strip position within the current image; and the Data  
Connections insure repeated transfers of successive Image Strips  
together with synchronization information including Time-Ref and

all Modules repeatedly receive, process and transmit the Image Strips.

10. (amended) The Software System of claim 2, wherein the Communication Pattern comprises one the following types of Connections between two Ports:

*A1*  
*Control*  
A Pipe-Line Connection that is a point to point Connection, which transfers consecutive Image Strips;

A [1/n]-Scatter Connection that is a point to point Connection belonging to a group of n Connections all issued from a common Output Port, which transfers one Image Strip every n Image Strips;

A [1/n]-Gather Connection that is a point to point Connection belonging to a group of n connections all reaching a common Input Port, which transfers one Image Strip one every n Image Strip and gathers all the Image Strips reaching this common Output Port.

*A2*  
14. (amended) A medical examination imaging apparatus having means for acquiring medical digital image data and using a Software System having access to said medical digital image data according to claim 1, and having display means for displaying the medical digital images and the processed medical digital images.

*As  
Sund*

15. (amended) A computer program product comprising a set of instructions for running the Software System as claimed in claim 1.

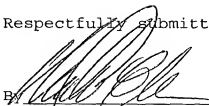
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REMARKS

The foregoing amendments to the claims were made solely to avoid filing the claims in the multiple dependent form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicants respectfully reserve all rights they may have under the Doctrine of Equivalents. Applicants furthermore reserve their right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

  
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APPENDIX

9. (amended) The Software system of ~~one of Claims 6 to 8~~claim 6, wherein the time reference structure labeled Time-Ref locates the Image Strips with respect to the current image index in the sequence and with respect to the Image Strip position within the current image; and the Data Connections insure repeated transfers of successive Image Strips together with synchronization information including Time-Ref and all Modules repeatedly receive, process and transmit the Image Strips.

10. (amended) The Software System of ~~one of Claims 2 to 9~~claim 2, wherein the Communication Pattern comprises one the following types of Connections between two Ports:

A Pipe-Line Connection that is a point to point Connection, which transfers consecutive Image Strips;

A  $[1/n]$ -Scatter Connection that is a point to point Connection belonging to a group of  $n$  Connections all issued from a common Output Port, which transfers one Image Strip every  $n$  Image Strips;

A  $[1/n]$ -Gather Connection that is a point to point Connection belonging to a group of  $n$  connections all reaching a common Input Port, which transfers one Image Strip one every  $n$  Image Strip and gathers all the Image Strips reaching this common Output Port.

14. (amended) A medical examination imaging apparatus having means for acquiring medical digital image data and using a Software System having access to said medical digital image data according to ~~one of the preceding Claims 1 to 13~~claim 1, and having display means for displaying the medical digital images and the processed medical digital images.

15. (amended) A computer program product comprising a set of instructions for running the Software System as claimed in ~~one of Claims 1 to 13~~claim 1.